



State of Wisconsin  
Governor Tony Evers

Frankie Lusk

**Department of Agriculture, Trade and Consumer Protection**  
Bradley M. Pfaff, Secretary  
Wisconsin Weights and Measures Laboratory

***Calibration Certificate***  
***Statement of***  
***Uncertainty, Traceability, Limitations, and Conditions***  
*for calibration work performed for:*  
**A-1 SCALE COMPANY, INC.**

3287 SHERMAN WAY  
SLINGER  
WI  
53086  
(262) 677-3555

Date Received: 2/28/2019  
Date of Calibration: 3/1/2019  
Date Due: 3/1/2021

State Test No.: WI19-078

**Uncertainty Statement**

*For the weights used in this calibration, some components can be assessed through a Type A evaluation, the method for assessing uncertainty by a statistical analysis of measured quantity values obtained under defined measurement conditions. In addition, other components were assessed from a Type B evaluation of standard uncertainty, based on scientific judgement using all of the relevant information available. The combined standard uncertainties multiplied by those coverage factors specified in our standard calibration records, to provide an expanded uncertainty. This uncertainty defined an interval having a level of confidence of approximately 95 per cent, assuming normal distribution. The expanded uncertainty presented in this report is consistent with the ISO/IEC Guide to the Expression of Uncertainty in Measurement using the method Root Sum Squares (JCGM 100:2008).*

**Traceability Statement**

*The standards used by the Wisconsin State laboratory demonstrate an unbroken traceable chain to the International System of Units (SI) through the National Institute of Standards and Technology (NIST) and are part of a comprehensive measurement assurance program for ensuring continued accuracy and measurement traceability within the level of uncertainty reported by this laboratory. The laboratory maintains documented calibration intervals and uses documented procedures, all under the performance of trained personnel who demonstrate suitable measurement assurance for the information listed in this calibration report. The laboratory test number identified above is the unique report number to be used in referencing measurement traceability for the artifacts identified in this report. The State Standards are traceable to the SI unit for mass, the kilogram.*

**Limitations and Conditions Statement**

*These results relate only to the items calibrated in this report. Weights and weight carts are calibrated to NIST Handbook 105-1 (1990) and NIST Handbook 105-8 (2003), respectively, using NISTIR 6969, Selected Laboratory Measurement Practices and Procedures to Support Basic Mass Calibrations (2018). Class F tolerances are usable for testing commercial weighing devices in Wisconsin, following NIST Handbook 44, Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices. Weights calibrated to ASTM tolerance 7 by this laboratory cannot be used for testing commercial weighing devices in Wisconsin, by definition (See NIST Handbook 105-1, Specification 1). Weight calibrated by ASTM Standard Specification E617-13 are not checked for density [Stainless steel weights are assumed 8.0 g/cm<sup>3</sup>, or for magnetism.*

The following standard(s) were used: Metric Weight Set WS-2

*This report may not be reproduced, except in full, without the written approval of the Chief Metrologist or Lab Director.*

*Paul Masterson*

Paul Masterson, Chief Metrologist

*Justin Lien*  
Justin Lien, Laboratory Director



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Wisconsin Weights and Measures Laboratory

**Calibration Certificate**

Date Received: February 28, 2019  
Date of Calibration: March 01, 2019  
Date Due: March 01, 2021

State Test No.: W19-078  
Item(s) Submitted: Weight Kit  
Manufacturer: Rice Lake  
Condition: Good

Customer: A-1 SCALE COMPANY, INC.  
Address: 3287 SHERMAN WAY  
SLINGER, WI 53086

Tolerance Class: NIST HB 105-1 (1990), Class F  
Kit Serial #: A1-WS6  
Balance ID#: 3,6,7

Contact: SCOTT KLESPPER  
Phone: (262) 677-3555  
PO Number: 11719-JP

Procedure Used: NISTIR 6969 (2018), SOP 8  
Temperature: 21.3 °C  
Relative Humidity: 45.5 %  
Pressure: 740.9 mmHg

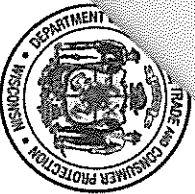
Nominal Mass	Mass Unit	Serial No.	Conventional Mass Correction (mg) As Found	NIST HB 105-1 (1990), Class F As Found	Uncertainty (mg)	Coverage Factor (k)
5000 g			239	Pass	60	2.04
2000 g	g		94	Pass	24	2.04
2000 g	g	*	96	Pass	24	2.04
1000 g	g		42	Pass	12	2.04
500 g	g		20.8	Pass	8.5	2.04
200 g	g		14.3	Pass	4.8	2.04
200 g	g	*	17.3	Pass	4.8	2.04
100 g	g		5.8	Pass	2.4	2.04
50 g	g		3.6	Pass	1.2	2.04
20 g	g		1.65	Pass	0.48	2.04
20 g	g	*	1.19	Pass	0.48	2.04
10 g	g		1.10	Pass	0.24	2.04
5 g	g		0.57	Pass	0.18	2.04
2 g	g		0.16	Pass	0.14	2.04
2 g	g	*	0.14	Pass	0.14	2.04
1 g	g		0.23	Pass	0.11	2.04
0.5 g	g		0.268	Pass	0.087	2.06
0.2 g	g		0.242	Pass	0.065	2.06
0.2 g	g	*	0.100	Pass	0.065	2.06
0.1 g	g		0.152	Pass	0.052	2.06
0.05 g	g		0.073	Pass	0.042	2.06
0.02 g	g		0.119	Pass	0.032	2.06
0.02 g	g	*	0.071	Pass	0.032	2.06
0.01 g	g		0.080	Pass	0.026	2.06
0.005 g	g		0.006	Pass	0.021	2.06
0.002 g	g		0.003	Pass	0.015	2.06

The following standard(s) were used: Mettler Weight Set WS-2

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*Paul Masterson*

Paul Masterson, Chief Metrologist



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Balance ID#: 3,6,7  
Procedure Used: NISTIR 6969 (2018), SOP 8  
Temperature: 21.3 °C  
Relative Humidity: 45.5 %  
Pressure: 740.9 mmHg

Nominal Mass	Mass Unit	Serial No.	Conventional Mass Correction (mg)	NIST HB 105-1 (1990), Class F	Uncertainty (mg)	Coverage Factor (k)
0.001	g		As Found 0.040 As Left 0.040	As Found Pass As Left Pass	0.012	2.06

The following standard(s) were used: Metric Weight Set WS-2

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*Paul Masterson*

Paul Masterson, Chief Metrologist